

In the Claims:

The Claims stand as follows:

1. (Previously Presented) A touch sensor type liquid crystal display comprising:

a liquid crystal display panel having first and second substrates arranged oppositely to each other by a specified gap;

a plurality of columnar gap controlling spacers, each of which restricts a width of the gap and a spacer movement in a planar direction, each of the spacers having two members with one of the two members contacting the first substrate to define a first contact surface and the other of the two members contacting the second substrate to define a second contact surface and the two members contacting each other at a point intermediate between the first and second substrates, wherein a cross-section of each spacer parallel to the plane of a substrate at said intermediate point is no larger in area than either of said first and second contact surfaces; and

a touch sensor added to the liquid crystal display panel including fixed and movable electrode plates.

2. (Original) The touch sensor type liquid crystal display according to claim 1, wherein said gap controlling spacers are regularly arranged in a planar direction of the liquid crystal display panel.

3. (Original) The touch sensor type liquid crystal display according to claim 2, wherein arranged densities of said gap controlling spacers are set according to the number of times of touching the touch sensor.

4. (Original) The touch sensor type liquid crystal display according to claim 2, wherein an arranged density of said gap controlling spacers is high in a center of the liquid crystal display panel.

5. (Previously Presented) A touch sensor type liquid crystal display comprising:

- a liquid crystal display panel having array and color filter substrates arranged oppositely to each other by a specified gap;

- a gap controlling spacer for restricting a width of the gap and a spacer movement in a planar direction, each spacer having two members with one of the two members contacting the array substrate and the other of the two members contacting the color filter substrate and the two members contacting each other at a point intermediate between the array and color filter substrates, the cross-section of each spacer parallel to the plane of a substrate at said intermediate point being no larger in area than either of the substrate contact surfaces; and

- a touch sensor added to the liquid crystal display panel including fixed and movable electrode plates; and

- a grid arranged between the fixed and movable electrode plates,

- wherein arranging positions of said gap controlling spacer and said grid are coincident with each other.

6. (Original) The touch sensor type liquid crystal display according to claim 5, said display being constructed by laminating together said liquid crystal display panel having the array and color filter substrates arranged oppositely to each other by interpolating a liquid crystal layer, and a touch sensor panel having the movable and fixed electrode plates arranged oppositely to each other by a specified gap.

7. (Original) The touch sensor type liquid crystal display according to claim 6, wherein said movable and fixed electrode plates are made of plastic films.

8. (Previously Presented) The touch sensor type liquid crystal display according to claim 5, wherein said array and color filter substrates of the liquid crystal display panel are arranged oppositely to each other by interpolating a liquid crystal layer, said movable electrode plate serves as a touch sensor arranged oppositely to the color filter substrate by a specified gap, and a conductive film is provided to serve as a touch sensor formed on a surface opposite the movable electrode plate.

9. (Original) The touch sensor type liquid crystal display according to claim 8, wherein said movable electrode plate is made of a plastic film.

10. (Previously Presented) A touch sensor type liquid crystal display comprising:

a liquid crystal display panel having first and second substrates arranged oppositely to each other by a specified gap;

a gap controlling spacer formed in a columnar shape for restricting a width of the gap, each spacer having two members with one of the two members contacting the first substrate and the other of the two members contacting the second substrate and the two members contacting each other at a point intermediate between the first and second substrates, the cross-section of each spacer parallel to the plane of a substrate at said intermediate point being no larger in area than either of the substrate contact surfaces; and

a touch sensor added to the liquid crystal display panel including movable and fixed electrode plates.

11. (Original) The touch sensor type liquid crystal display according to claim 10, wherein said gap controlling spacer is arranged in a black matrix region of the liquid crystal display panel.

12. (Previously Presented) A touch sensor type liquid crystal display comprising:

a liquid crystal display panel having first and second substrates arranged oppositely to each other by a specified gap;

a touch sensor added to the liquid crystal display panel including movable and fixed electrode plates; and

a gap controlling spacer for restricting a width of the gap, each spacer having two members with one of the two members contacting the first substrate and the other of the two members contacting the second substrate and the two members contacting each other at a point intermediate between the first and second substrates,

wherein said gap controlling spacer is brought into surface-contact with one selected from the first and second substrates, the gap therebetween being restricted by the gap controlling spacer with the cross-section of each spacer parallel to the plane of a substrate at said intermediate point being no larger in area than either of the substrate contact surfaces.

13. (Previously Presented) A touch sensor type liquid crystal display comprising:

a liquid crystal display panel having first and second substrates arranged oppositely to each other by a specified gap; and

gap controlling spacers, each of which restricts a width of the gap and a spacer movement in a planar direction, each of the spacers having two members with one of the two members contacting the first substrate and the other of the two members contacting the second substrate and the two members contacting each other at a point intermediate between the first and second substrates, the cross-section of each spacer parallel to the plane of a substrate at said

intermediate point being no larger in area than either of the substrate contact surfaces,

wherein arranged densities of said gap controlling spacers are not uniform.

14. (Original) The liquid crystal display according to claim 13, wherein an arranged density of said gap controlling spacers is high in a center of the liquid crystal display panel.

15. (Previously Presented) A liquid crystal display as defined in Claim 13 wherein each of the two members of each spacer is columnar in shape.

16. (Previously Presented) A liquid crystal display as defined in Claim 13 wherein the cross-section of each spacer parallel to the plane of a substrate at said intermediate point is smaller in area than either of the substrate contact surfaces.

17. (Previously Presented) A liquid crystal display as defined in Claim 13 wherein said gap controlling spacers are regularly arranged in a planar direction of the liquid crystal display panel.

18. (Previously Presented) A liquid crystal display as defined in Claim 13 wherein an arranged density of said gap controlling spacers is greater in a center of the liquid crystal display panel.

19. (Previously Presented) A liquid crystal display as defined in Claim 1 wherein each of the two members of each spacer is columnar in shape.

20. (Previously Presented) A liquid crystal display as defined in Claim 1 wherein the cross-section of each spacer parallel to the plane of a substrate at said intermediate point is smaller in area than either of the substrate contact surfaces.